2004 Water Quality Assessment (Final) - Category 5 Listings for WRIA 25

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
25	**35175**	**5**	**N**	**ABERNATHY CREEK**	**AP47TF**	**5.237**	**09N**	**04W**	**26**	**Temperature**	**Water**
				Cowlitz Conservation District unpublished data (submitted by Kali Robson 28 January 2003) show a 7-day mean of maximum daily temperature of 18.8 degrees C, with a maximum daily temperature of 20.7 degrees C from continuous measurements collected in 2002 at Abernathy - Above Wiest Creek.							
25	**35254**	**5**	**N**	**ABERNATHY CREEK**	**AP47TF**	**1.725**	**08N**	**04W**	**03**	**Temperature**	**Water**
				Cowlitz Conservation District unpublished data (submitted by Kali Robson 28 January 2003) show a 7-day mean of maximum daily temperature of 18.6 degrees C, with a maximum daily temperature of 20.1 degrees C from continuous measurements collected in 2002 at Abernathy - Above Slide Creek.							
25	**35255**	**5**	**N**	**ABERNATHY CREEK**	**AP47TF**	**0.557**	**08N**	**04W**	**39**	**Temperature**	**Water**
				Cowlitz Conservation District unpublished data (submitted by Kali Robson 28 January 2003) show a 7-day mean of maximum daily temperature of 18.5 degrees C, with a maximum daily temperature of 20 degrees C from continuous measurements collected in 2002 at Abernathy - Lower.							
25	**35178**	**5**	**N**	**COAL CREEK**	**NP34OX**	**1.271**	**08N**	**03W**	**10**	**Temperature**	**Water**
				Cowlitz Conservation District unpublished data (submitted by Kali Robson 28 January 2003) show a 7-day mean of maximum daily temperature of 19.2 degrees C, with a maximum daily temperature of 20.5 degrees C from continuous measurements collected in 2002 at Coal Creek - Above Harmony Creek.							
25	**35180**	**5**	**N**	**COAL CREEK**	**NP34OX**	**7.58**	**09N**	**03W**	**27**	**Temperature**	**Water**
				Cowlitz Conservation District unpublished data (submitted by Kali Robson 28 January 2003) show a 7-day mean of maximum daily temperature of 18.8 degrees C, with a maximum daily temperature of 20.5 degrees C from continuous measurements collected in 2002 at Coal Creek - Above East Fork.							
25	**8768**	**5**	**Y**	**COLUMBIA RIVER**	**NN57SG**	**46123C7H4**	**46.275**		**123.745**	**4,4'-DDE**	**Tissue**
				Laflamme and Gilroy, 1996. , excursions beyond the National Toxic Rule criterion in sturgeon fillets in 1994 and 1995..						The data used for the cited report (Tetra Tech, 1996) results from a composite of fish from many different locations. The lowest downstream station sampled (RM 20) is used for identifying the segment location.	
25	**8764**	**5**	**Y**	**COLUMBIA RIVER**	**NN57SG**	**46123B2E7**	**46.145**		**123.275**	**Dieldrin**	**Tissue**
				Tetra Tech, 1993 , 3 excursions beyond the national toxics rule criterion in the edible tissue of a individual White Sturgeon at RM 49.							
25	**6697**	**5**	**Y**	**COLUMBIA RIVER**	**NN57SG**	**46122B9A5**	**46.105**		**122.955**	**Fecal Coliform**	**Water**
				Hallock and Ehinger, 1993., excursions beyond criteria near Longview from 9/92 to 12/92.;						Data is only available in hardcopy format. The water segment is listed as Category 5 based on the 1998 assessment.	

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis						Remarks
25	**3785**	**5**	**Y**	**COLUMBIA RIVER**	**NN57SG**	**46122A8B5**	**46.015**	**122.855**	**Temperature**	**Water**
				Tanner, et al. 1996, 55 excursions beyond the criterion out of 105 samples (52%) near Kalama, WA in 1996.						EPA has the lead in a Temperature TMDL for the Columbia and Snake Rivers that is underway.
25	**21537**	**5**	**N**	**COLUMBIA RIVER**	**NN57SG**	**46123B0H8**	**46.175**	**123.085**	**Temperature**	**Water**
				Continuous monitoring data from a study by Parametrix (2002 and 2004) indicates exceedances of the numeric temperature criteria of 20°C at RM 71.9 in 2002 and 2003.						Northwest Pulp and Paper Association presented rationale a two year study performed by Parametrix (12/16/02 and 3/15/04) that temperatures higher than the 20°C numeric criteria are a natural condition and the segment meets the state water quality standard for temperature. Ecology required pulp mills on the Columbia and White/Stuck River to perform a two-year ambient water temperature monitoring study in accordance with Ecologys WQP 1-11 and quality assurance requirements. Ecology reviewed this study and the associated listing in 2003 for natural conditions, but has not yet made a determination of natural conditions for these rivers. EPA has the lead in a Temperature TMDL for the Columbia and Snake Rivers that is underway that may address this issue. The Parametrix study measured temperature data upstream and downstream of pulp mills along the rivers and found the mills did not have a measurable effect on temperatures (the associated discharges do not exceed 0.3 degrees). This study will be valuable for verifying that pulp mills do not contribute a significant increase in temperature when load allocations are being considered in the TMDL.
25	**43540**	**5**	**Y**	**COLUMBIA RIVER**	**NN57SG**	**46123B4F0**	**46.155**	**123.405**	**Temperature**	**Water**
				Tanner, et al. 1996, 46 excursions beyond the criterion out of 110 samples (42%) at Wauna, OR in 1996.						Split from Listing ID 3785 on 05/06/05. -kk
25	**8765**	**5**	**Y**	**COLUMBIA RIVER**	**NN57SG**	**46123B2E7**	**46.145**	**123.275**	**Total PCBs**	**Tissue**
				Tetra Tech, 1993. 3 excursions beyond the national toxics rule criterion in the edible tissue of a individual White Sturgeon at RM 49.						
25	**8772**	**5**	**Y**	**COLUMBIA RIVER**	**NN57SG**	**46123C5E5**	**46.245**	**123.555**	**Total PCBs**	**Tissue**
				Laflamme and Gilroy, 1996. excursions beyond the National Toxic Rule criterion in sturgeon, L. sucker and carp fillets in 1994 and 1995.						The data used for the cited report (Tetra Tech, 1996) results from a composite of fish from many different locations. The lowest downstream station sampled (RM 29) is used for identifying the segment location.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
				Basis					Remarks	
25	**8773**	**5**	**Y**	**COLUMBIA RIVER**	**NN57SG**	**46123C7H4**	**46.275**	**123.745**	**Total PCBs**	**Tissue**
				Laflamme and Gilroy, 1996. excursions beyond the National Toxic Rule criterion in Carp, Sturgeon, L. Sucker, Chinook, Coho and Steelhead fillets in 1994 and 1995.					The data used for the cited report (Tetra Tech, 1996) results from a composite of fish from many different locations. The lowest downstream station sampled (RM 20) is used for identifying the segment location.	
25	**35253**	**5**	**N**	**CROOKED CREEK**	**UM89LU**	**12.005**	**10N**	**08W** **36**	**Temperature**	**Water**
				Cowlitz Conservation District unpublished data (submitted by Kali Robson 28 January 2003) show a 7-day mean of maximum daily temperature of 18.4 degrees C, with a maximum daily temperature of 20.3 degrees C from continuous measurements collected in 2002 at Crooked.						
25	**35173**	**5**	**N**	**DELAMETER CREEK**	**EF94JD**	**1.674**	**09N**	**02W** **17**	**Temperature**	**Water**
				Cowlitz Conservation District unpublished data (submitted by Kali Robson 28 January 2003) show a 7-day mean of maximum daily temperature of 19.9 degrees C, with a maximum daily temperature of 21.5 degrees C from continuous measurements collected in 2002 at Delameter - Above Hazel Dell Road.						
25	**35252**	**5**	**N**	**DELAMETER CREEK**	**EF94JD**	**4.228**	**09N**	**02W** **18**	**Temperature**	**Water**
				Cowlitz Conservation District unpublished data (submitted by Kali Robson 28 January 2003) show a 7-day mean of maximum daily temperature of 19 degrees C, with a maximum daily temperature of 20.3 degrees C from continuous measurements collected in 2002 at Delameter - Below Monahan Creek.						
25	**34950**	**5**	**N**	**ELOCHOMAN RIVER**	**RE01VV**	**8.265**	**09N**	**05W** **31**	**Temperature**	**Water**
				Cowlitz Conservation District unpublished data (submitted by Kali Robson 28 January 2003) show a 7-day mean of maximum daily temperature of 21 degrees C, with a maximum daily temperature of 23 degrees C from continuous measurements collected in 2002 at Elochoman R. - Lower.						
25	**3791**	**5**	**Y**	**GERMANY CREEK**	**OF50GD**	**12.888**	**09N**	**03W** **06**	**Temperature**	**Water**
				Sullivan et al 1990. , 8 excursions beyond the criterion in 1988.					Continuous temperature measurements were taken, but data were previously submitted only in hardcopy form. The water segment is listed as Category 5 based on the 1998 assessment.	
25	**35171**	**5**	**N**	**GERMANY CREEK**	**OF50GD**	**3.047**	**08N**	**04W** **41**	**Temperature**	**Water**
				Cowlitz Conservation District unpublished data (submitted by Kali Robson 28 January 2003) show a 7-day mean of maximum daily temperature of 20 degrees C, with a maximum daily temperature of 21.8 degrees C from continuous measurements collected in 2002 at Germany - below ag.						
25	**35176**	**5**	**N**	**GERMANY CREEK**	**OF50GD**	**0.903**	**08N**	**04W** **12**	**Temperature**	**Water**
				Cowlitz Conservation District unpublished data (submitted by Kali Robson 28 January 2003) show a 7-day mean of maximum daily temperature of 19.2 degrees C, with a maximum daily temperature of 20.6 degrees C from continuous measurements collected in 2002 at Lower Germany Creek.						

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
25	**35177**	**5**	**N**	**GRAYS RIVER**	**EU11ZS**	**33.433**	**11N**	**06W**	**31**	**Temperature**	**Water**
				Cowlitz Conservation District unpublished data (submitted by Kali Robson 28 January 2003) show a 7-day mean of maximum daily temperature of 19.1 degrees C, with a maximum daily temperature of 20.6 degrees C from continuous measurements collected in 2002 at Grays River - Above South Fork.							
25	**35258**	**5**	**N**	**GRAYS RIVER**	**EU11ZS**	**23.177**	**10N**	**07W**	**08**	**Temperature**	**Water**
				Cowlitz Conservation District unpublished data (submitted by Kali Robson 28 January 2003) show a 7-day mean of maximum daily temperature of 18.5 degrees C, with a maximum daily temperature of 19.7 degrees C from continuous measurements collected in 2002 at Grays River - SR4 Bridge.							
25	**35179**	**5**	**N**	**GRAYS RIVER, S.F.**	**UU86ON**	**0**	**11N**	**06W**	**31**	**Temperature**	**Water**
				Cowlitz Conservation District unpublished data (submitted by Kali Robson 28 January 2003) show a 7-day mean of maximum daily temperature of 19.1 degrees C, with a maximum daily temperature of 20.5 degrees C from continuous measurements collected in 2002 at South Fork Grays River.							
25	**7783**	**5**	**Y**	**LONGVIEW DITCHES**	**FQ06HT**	**6.62**	**07N**	**02W**	**03**	**Dissolved oxygen**	**Water**
				Cusimano, 1993, 2 excursions beyond criterion at stations A and B on 9/14/92 and 11/16/92. Singleton and Bailey, 1983, 1 excursion beyond the criterion at both stations 2 and 3 on 1/26/83.						During the assessment of data it was determined that WQ Policy 1-11 (updated 9/03) was overly restrictive for the number of years of data excursions needed to list for D.O. impairments. Based on a review of monitoring studies for statewide, it was determined that multiple (3 or more) excursions for at least two years of monitoring should be used as an alternative indicator that a waterbody continues to be impaired. (Braley, ECY/WQP, 2003). City of Longview analysis from Bob Gregory dated 12 December 2002 suggests the low oxygen concentration is a natural condition due to groundwater infiltration and iron concentrations. Ecology staff reviewed this listing in 2003 for natural conditions, but could not rule out the possibility that human activities contributed to the excursion(s).	

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WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
25	**7785**	**5**	**Y**	**LONGVIEW DITCHES**	**FQ06HT**	**4.932**	**07N**	**02W**	**04**	**Dissolved oxygen**	**Water**
				Cusimano, 1993, 2 excursions beyond criterion at stations C and D on 9/14/92 and 11/16/92. Singleton, 1984, 1 excursion beyond the criterion at stations 5,6,and 9 on 11/15/83. Singleton and Bailey, 1983, 1 excursion beyond the criterion at stations 6, 8, and 9 on 1/26/83.						During the assessment of data it was determined that WQ Policy 1-11 (updated 9/03) was overly restrictive for the number of years of data excursions needed to list for D.O. impairments. Based on a review of monitoring studies for
DO											
											statewide, it was determined that multiple (3 or more) excursions for at least two years of monitoring should be used as an alternative indicator that a waterbody continues
to											
											be impaired. (Braley, ECY/WQP, 2003). City of Longview analysis from Bob Gregory dated 12 December 2002 suggests the low oxygen concentration is a natural condition due to groundwater infiltration and iron concentrations. Ecology staff reviewed this listing in 2003 for natural conditions, but could not rule out the possibility that human activities contributed to the excursion(s).
25	**7786**	**5**	**N**	**LONGVIEW DITCHES**	**FQ06HT**	**3.094**	**07N**	**02W**	**05**	**Dissolved oxygen**	**Water**
				Weyerhaeuser Company unpublished data show excursions beyond the criterion in 2001 and 2002. Cusimano, 1993, 2 excursions beyond criterion at stations E, F, and G on 9/14/92 and 11/16/92. Weyerhaeuser, 1990, multiple excursions beyond the criterion at 5 stations on the segment in 9/89, 2/90, and 3/90. Singleton, 1984, 1 excursion beyond the criterion at stations 7, 8, and 10 on 11/15/83. Singleton and Bailey, 1983, 1 excursion beyond the criterion at station 10 on 1/26/83.						Weyerhaeuser Company analysis from Brian Wood dated 12 December 2002 suggests the low dissolved oxygen is a natural condition due to infiltration of groundwater. City of Longview analysis from Bob Gregory dated 12 December 2002 suggests the low oxygen concentration is a natural condition due to groundwater infiltration and iron concentrations. Ecology staff reviewed this listing in 2003
for											
											natural conditions, but could not rule out the possibility that human activities contributed to the excursion(s).
25	**7787**	**5**	**N**	**LONGVIEW DITCHES**	**FQ06HT**	**0.803**	**08N**	**02W**	**31**	**Dissolved oxygen**	**Water**
				Weyerhaeuser Company unpublished data show excursions beyond the criterion in 2001 and 2002. Cusimano, 1993, 2 excursions beyond criterion at station I on 9/14/92 and 11/16/92. Cusimano, 1993, 2 excursions beyond criterion at station H on 9/14/92 and 11/16/92. Singleton, 1984, 1 excursion beyond the upper criterion at stations Douglas St, 12, and WA St. on 11/15/83. Singleton and Bailey, 1983, 1 excursion beyond the criterion at station 11 on 1/26/83.						Weyerhaeuser Company analysis from Brian Wood dated 12 December 2002 suggests the low dissolved oxygen is a natural condition due to infiltration of groundwater. City of Longview analysis from Bob Gregory dated 12 December 2002 suggests the low oxygen concentration is a natural condition due to groundwater infiltration and iron concentrations. Ecology staff reviewed this listing in 2003
for											
											natural conditions, but could not rule out the possibility that human activities contributed to the excursion(s).
25	**10434**	**5**	**Y**	**LONGVIEW DITCHES**	**FQ06HT**	**6.62**	**07N**	**02W**	**03**	**Fecal Coliform**	**Water**
				Cusimano, 1993. Station LKD-A (Longview-Kelso Ditches (A)) and station LKD-B (Longview-Kelso Ditches (B)) show that 3 of 4 total samples (75%) exceeded the							Two samples were collected at each station within
one											
				percentile criterion collected during 1992.							waterbody segment.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium
				Basis						Remarks	
25	**10437**	**5**	**N**	**LONGVIEW DITCHES**	**FQ06HT**	**0.803**	**08N**	**02W**	**31**	**Fecal Coliform**	**Water**
				Weyerhaeuser Company unpublished data show the geometric mean criterion was exceeded in 2000 and the percentile criterion was exceeded in 2000, 2001, and 2002. Cusimano, 1993. station LKD-I (Longview-Kelso Ditches (I)) shows 1 single samples exceed the geometric mean criterion out of 2 samples collected during 1992.						
25	**34953**	**5**	**N**	**MONAHAN CREEK**	**OR23DO**	**0**	**09N**	**02W**	**18**	**Temperature**	**Water**
				Cowlitz Conservation District unpublished data (submitted by Kali Robson 28 January 2003) show a 7-day mean of maximum daily temperature of 18.5 degrees C, with a maximum daily temperature of 19.3 degrees C from continuous measurements collected in 2002 at Monahan Creek - Mouth.							
25	**7789**	**5**	**N**	**SACAJAWEA LAKE**	**837NAY**		**08N**	**02W**	**33**	**Fecal Coliform**	**Water**
Project				Completed Phase I Federal Clean Lakes Restoration Project in 1976- Problems Encountered: Blue-green algae, high turbidity, low dissolved oxygen, aquatic macrophytes, sediment phosphorus recycling, storm water, low transparency, fecal coliform bacteria. O'Neal et al. (2001) shows 2 sample above the criterion out of 2 samples.						Completed Phase II Federal Clean Lakes Restoration in 1987:Gibbs, et al. 1987.Control measures implemented based on the Phase I Study - sediment removal/dredging, dilution/flushing, diversion, structural storm water controls, aquatic macrophyte harvesting, public education. Fecal coliform data were previously submitted only in hardcopy form. The water segment is listed as Category 5 based on the 1998 assessment.	
25	**35174**	**5**	**N**	**SKAMOKAWA CREEK**	**NR88FK**	**2.973**	**09N**	**06W**	**05**	**Temperature**	**Water**
				Cowlitz Conservation District unpublished data (submitted by Kali Robson 28 January 2003) show a 7-day mean of maximum daily temperature of 19.9 degrees C, with a maximum daily temperature of 21.1 degrees C from continuous measurements collected in 2002 at Skamokawa - Above Falk Creek.							
25	**34949**	**5**	**N**	**UNNAMED CREEK**	**PC25OL**	**1.811**	**09N**	**03W**	**21**	**Temperature**	**Water**
				Cowlitz Conservation District unpublished data (submitted by Kali Robson 28 January 2003) show a 7-day mean of maximum daily temperature of 23.4 degrees C, with a maximum daily temperature of 25.7 degrees C from continuous measurements collected in 2002 at Unnamed Tributary - Upper.							
25	**35170**	**5**	**N**	**UNNAMED CREEK**	**PC25OL**	**0**	**09N**	**03W**	**28**	**Temperature**	**Water**
				Cowlitz Conservation District unpublished data (submitted by Kali Robson 28 January 2003) show a 7-day mean of maximum daily temperature of 20.5 degrees C, with a maximum daily temperature of 22.1 degrees C from continuous measurements collected in 2002 at Unnamed Tributary - Middle. Cowlitz Conservation District unpublished data (submitted by Kali Robson 28 January 2003) show a 7-day mean of maximum daily temperature of 17.8 degrees C, with a maximum daily temperature of 18.9 degrees C from continuous measurements collected in 2002 at Unnamed Tributary - Lower.							
25	**35172**	**5**	**N**	**WILSON CREEK**	**TE30VO**	**0.4**	**09N**	**06W**	**04**	**Temperature**	**Water**
				Cowlitz Conservation District unpublished data (submitted by Kali Robson 28 January 2003) show a 7-day mean of maximum daily temperature of 19.9 degrees C, with a maximum daily temperature of 21.6 degrees C from continuous measurements collected in 2002 at Wilson Creek - Lower.							